



Landscape Masterplan Statement

KERDIFFSTOWN LANDFILL REMEDIATION PROJECT



rps

Wills Bros Ltd
CIVIL ENGINEERING CONTRACTORS

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1.0 INTRODUCTION

This Landscape Masterplan Statement has been prepared by Wills Bros Limited. This statement forms part of a comprehensive suite of environmental controls within the Construction Environmental Management Plan (CEMP) for the remediation phase of Kerdiffstown Landfill Remediation Project. This is a live document and will be reviewed and updated during the works. The phasing of the works will be in consultation with KCC and Employer's Representative and this plan be updated accordingly.

The project will be in to two sections as stated below;

- Remediation Works – The works required to re-profile the site including excavation of waste and other materials for deposition on site to achieve the proposed final landform. The works will also include the installation of landfill infrastructure such as capping, landfill gas, leachate and surface water management. The remediation of the site will comprise the works required to restore the site to the proposed park end use, including planting and landscaping, installation of sports pitches, changing rooms, car parks and associated services.
- Operational / Aftercare – The life cycle stage of the site following the remediation works when the site will be used for public access parkland and recreation. The responsibility for the management of the site and the landfill infrastructure systems as well as park operation and maintenance will be retained by Kildare County Council (KCC).

This Landscape Masterplan Statement outlines each element relating to the landscape design for the project.

1.1 Project Overview

The Project involves the remediation of the Kerdiffstown Landfill site and development of the site as a multi-use public park. This is to be achieved by clearing and reprofiling the existing site, installing an engineered capping system, improving the management of landfill gas, leachate and surface water and the provision of landscaped and recreational areas. The site is approximately 30 hectares in size and is located at Kerdiffstown, Nass, Co. Kildare.

1.2 Contract Overview

The Contract Overview (Scope of Work) for the Kerdiffstown Landfill Remediation Project includes the following:

- Reprofiling of waste mounds to ensure the capping system works effectively and to facilitate the use of the site as a public park;
- Preparation and placing of a regulation layer in areas to be capped

- Installation of a permanent capping system across all existing waste areas to prevent rainfall infiltration, to manage surface water runoff, to reduce the production of leachate and to capture landfill gas;
- Installation of new systems to manage and control leachate and landfill gas which will include the construction of a dedicated landfill infrastructure compound and landfill gas flares (where extracted landfill gas is burned off);
- Construction of a leachate pipeline from the site, which will cross under the Morell Rover and N7 into Johnstown Pumping Station;
- Construction of a foul/wastewater pipeline connecting the site with Johnstown Pumping Station. This pipeline will run parallel to the leachate pipeline and will carry foul/wastewater from the site office and changing room building;
- Installation of surface water drainage to manage water on, and draining from, the site including surface water ponds and a surface water outfall point to the Morell River;
- Decommissioning of existing services, in particular an underground storage tank approximately 20m³ in capacity. There are also a large number of concrete structures (walls of former buildings) to be demolished;
- Processing of demolished concrete and other waste materials on site to produce engineering grade materials for re use on site;
- Development of a public park with multi-use sports pitches, car parking, a changing room building, children's playground and a network of paths across the site;
- Landscaping works across the site including grass seeding, planting of trees and shrubs, and ongoing maintenance period of the works.

1.3 Document Review

The Landscape Masterplan Statement will be regularly reviewed during the lifetime of this project and updated to reflect changing conditions on site. Changes will be made subject to review and monitoring of conditions on site. Any changes will be agreed with KCC and ER in advance through the normal communication channels.

1.4 Works Requirements

As per the Works Requirements, the Landscape Masterplan Statement will adhere to the design and conditions set out in the following items:

- Appendix 6/8: topsoiling, grass seeding and turfing

- Appendix 6/9: earthworks environmental bunds, landscape areas, screening mounds, and strengthened embankments

2.0 Landscape General Arrangements

Section 2.0 outlines the landscape general arrangements for the site. Figure 2-1 below outlines the legend for the drawings shown below in Figure 2-2 and Figure 2-3. These drawings give an overview of the final landscape design. All the elements outlined will be installed or constructed as per the WBL works programme. This work includes the installation of;

- Ecology works
- Fencing
- Proposed Gates
- Retention of trees
- Planting;
 - Trees
 - Scrubs
 - Hedges
 - Aquatic
 - Grasslands
- Proposed sport surfacing facilities
- Proposed furniture
- Proposed signage

	Indicative Location for Bat Boxes. Refer to Appendix 40/1AR of the Specification. Final locations to be agreed with Client.
	Indicative Location for Bird Box. Refer to Appendix 40/1AR of the Specification. Final location to be agreed with Client.
	Indicative Location for Hedgehog Box. Refer to Appendix 40/1AR of the Specification. Final location to be agreed with Client.
	Indicative Location for Reptile Hibernacula. Refer to Appendix 40/1AR of the Specification. Final location to be agreed with Client.
	Indicative Location for Artificial Sand Martin Bank. Refer to Appendix 40/1AR of the Specification.
	Proposed Palisade Fencing as per Type 1 Fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102-01 in accordance with Appendix 3/1 of the Specification
	Proposed Sports Pitch Fencing as per Type 8 Fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102-01 in accordance with Appendix 3/1 of the Specification
	Proposed Timber Post and Rail Fencing (SCD 00301) in accordance with Appendix 3/1 of the Specification
	Proposed 1.2m High Bow top Railings to play area as per Type 5 Fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102 in accordance with Appendix 3/1 of the Specification
	Proposed 2.4m / 1.2m Timber clad mesh fence as per Type 4 and Type 4a Fence in accordance with Appendix 3/1 of the Specification as appropriate to location
	Proposed Acoustic Timber Fence as per Type 7 fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102 in accordance with Appendix 3/1 of the Specification
	Proposed boundary brick wall as per Dwg. MDR1406-RPS-00-XX-DR-C-DG2100-02 (TII Publication CC-SCD-02401)
	Proposed entrance railing and Stonework wall as per Dwg. MDR1406-RPS-00-XX-DR-C-DG2103-01
	Proposed entrance railing and masonry faced blockwork wall as per Dwg. MDR1406-RPS-00-XX-DR-C-DG2103-01
	Proposed gate location. Type and style of gate as appropriate to location in accordance with Appendix 3/1 of the Specification

LEGEND

	Existing Trees to be retained in accordance with BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations		Proposed Asphalt Surfaced Access Routes. Refer to Detail E on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
	Existing Trees and vegetation to be removed		Proposed 2m Wide Access Routes. Refer to Detail F on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
	<i>Amelanchier lamarckii</i> Extra heavy standard tree planted in accordance with Series 600, Appendix 6/ 9 of the Specification and Detail A on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007.		Proposed 1.5m Wide Access Routes. Refer to Type 3 detail on Dwg. MDR1406-RPS-00-XX-DR-C-DG1705 for details
	<i>Alnus glutinosa</i> Extra heavy standard tree planted in accordance with Series 600, Appendix 6/ 9 of the Specification and Detail A on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007.		Proposed grassed areas with Grassmat safety surfacing as per Appendix 36/1AR of the Specification
	<i>Betula pendula</i> Extra heavy standard tree planted in accordance with Series 600, Appendix 6/ 9 of the Specification and Detail A on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007.		Proposed Areas of Wetpour Safety Surfacing as per Appendix 36/1AR of the Specification retained with 50mm wide flat top pin kerb
	Woodland planting areas planted in accordance with Series 600, Appendix 6/ 9 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for planting details		Proposed Sand Play / Sand Surfacing as per Appendix 36/1AR of the Specification
	Shrub planting areas planted in accordance with Series 600, Appendix 6/ 9 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for planting details		Proposed Sports Pitch Surfacing Refer to Engineers drawings for details
	Scrub planting areas lanted in accordance with Series 600, Appendix 6/ 9 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for planting details		Proposed Running Track Surfacing Refer to Engineers drawings for details
	Hedge planting planted in accordance with Series 600, Appendix 6/ 9 of the Specification and Detail D on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007.		Proposed Concrete block paving to footpaths and circulation area. Refer to Detail SCD 01106
	Aquatic planting, planted in accordance with Series 600, Appendix 6/ 9 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5003-01 for species mix		Proposed Concrete block paving with contrasting colour trim to play area entrance and viewing point. Refer to Detail G on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007
	Amenity Grassland Areas in accordance with Series 600, Appendix 6/ 8 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5003-01 for mix details.		Proposed Location for Picnic Bench and Table. Refer to Detail H on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
	Open Grassland Areas, in accordance with Series 600, Appendix 6/ 8 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5003-01 for mix details.		Proposed Location for Seat. Refer to Detail K on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Species Rich Grassland Areas in accordance with Series 600, Appendix 6/ 8 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5003-01 for mix details.		Proposed Location for Bench. Refer to Detail L on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Wet Meadow Grassland Areas in accordance with Series 600, Appendix 6/ 8 of the Specification. Refer to Dwg. MDR1406-RPS-00-XX-DR-L-LA5003-01 for mix details.		Proposed Location for Cycle Rack (2N, per location) Refer to Detail M on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
			Proposed Location for Litter Bin. Refer to Detail J on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
			Proposed Location for Information / Interpretive sign board Refer to Detail N on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
			Proposed Viewpoint interpretive sign. Refer to Detail N on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
			Proposed location for EPA Licence Sign. Refer to Detail O on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details

Figure 2-1 Legend for Landscape General Arrangements

2.1 Landscaping

Following placement of the 2S material, our GPS enabled dozer will grade the material to the required level depending on location. Our site engineers will have developed a model of the top of sub soil levels to include varying topsoil levels and in pitch areas which are indicated in appendix 6/8 of the Works Requirements and Drawing 5001, Landscape General Arrangements. The model will be uploaded to the dozer, this will ensure the correct sub soil levels are achieved throughout the site. Subsoil levels will be surveyed, and a drawing developed as part of the As-Built file. We are aware there are areas other than grass and wildflower where 450mm of topsoil is required, at this stage we will place the minimum of 300mm cover over the liner for protection, these areas will be attended to during the landscaping works on the project.

Following completion of the subsoil grading by our GPS enabled dozer and the installation of above liner services including chambers our engineers will check to ensure all services are installed and tested and that subsoil levels are surveyed. There are areas where 450mm of topsoil are required, these are areas other than grass and wildflower which are indicated in the Landscape General Arrangement drawings. We previously placed a minimum of 300mm of subsoil in these areas to protect the liner during sub soil grading and service installation, now that these works are complete our engineer will mark out these areas and a crew will carefully excavate to the correct level under the supervision of a banksman. Our engineer will check that the level is correct and will survey for As-Built records then the correct depth of topsoil will be placed. We will also place the correct depth of topsoil where required using dumpers and again the GPS dozer to achieve the correct final levels. Following the placement of topsoil our specialist landscaper will be present to carry out the required planting.

2.2 Landscaping Review

As the project progresses this Landscape Masterplan Statement will be updated with any amendments to the methodology for the landscaping element to the works.

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
Landscape Masterplan Statement
November - 2020

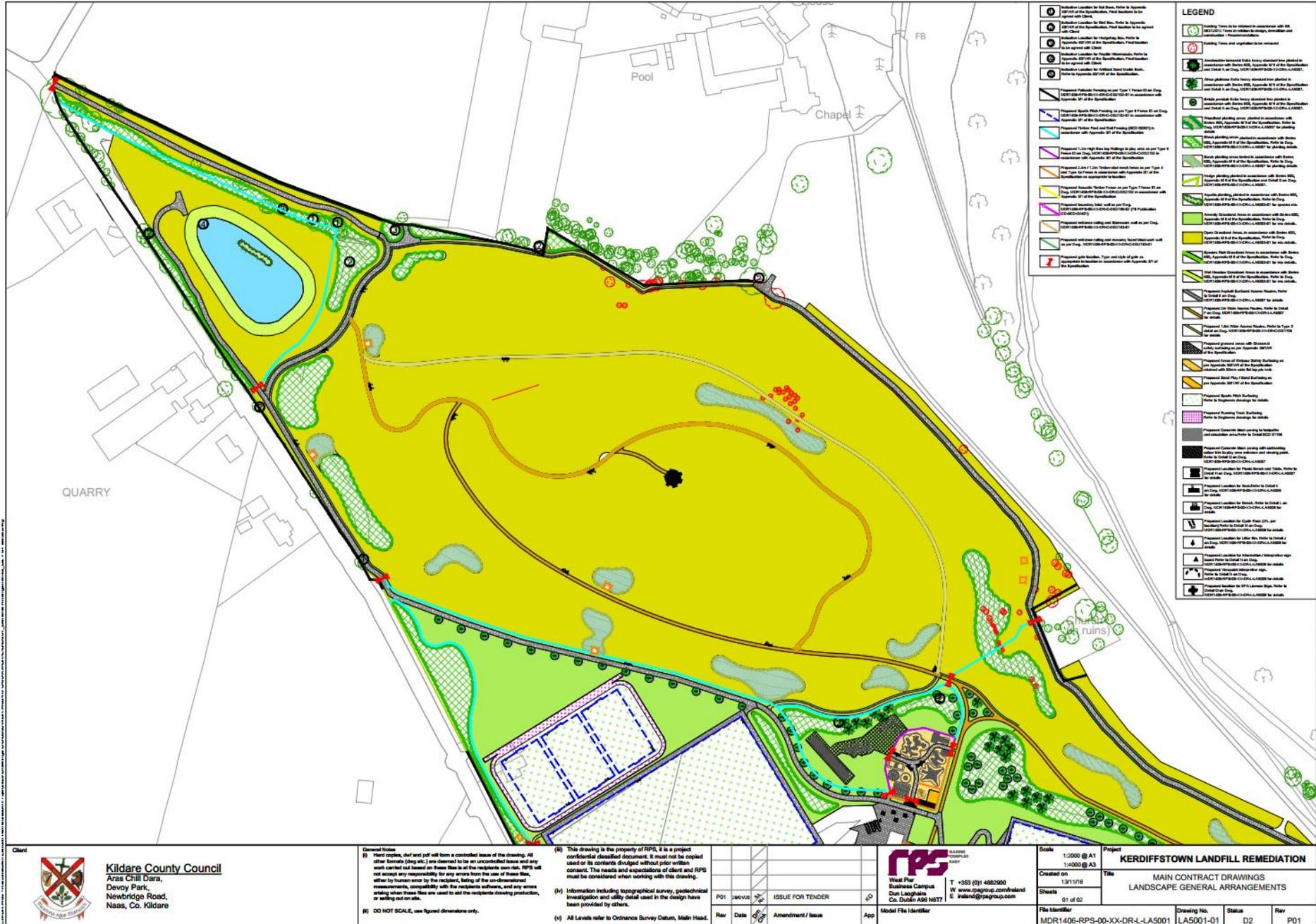


Figure 2-2 Landscape General Arrangements 1 of 2

3.0 Main Site Planting Plan

Section 3.0 outlines the Planting Plan for the site. Figure 3-1 below outlines the legend for the drawings shown below in Figure 3-2 and Figure 3-3. A variety of planting will be carried out as per the Works Requirements. All planting and seeding works will be undertaken as per the WBL works programme.

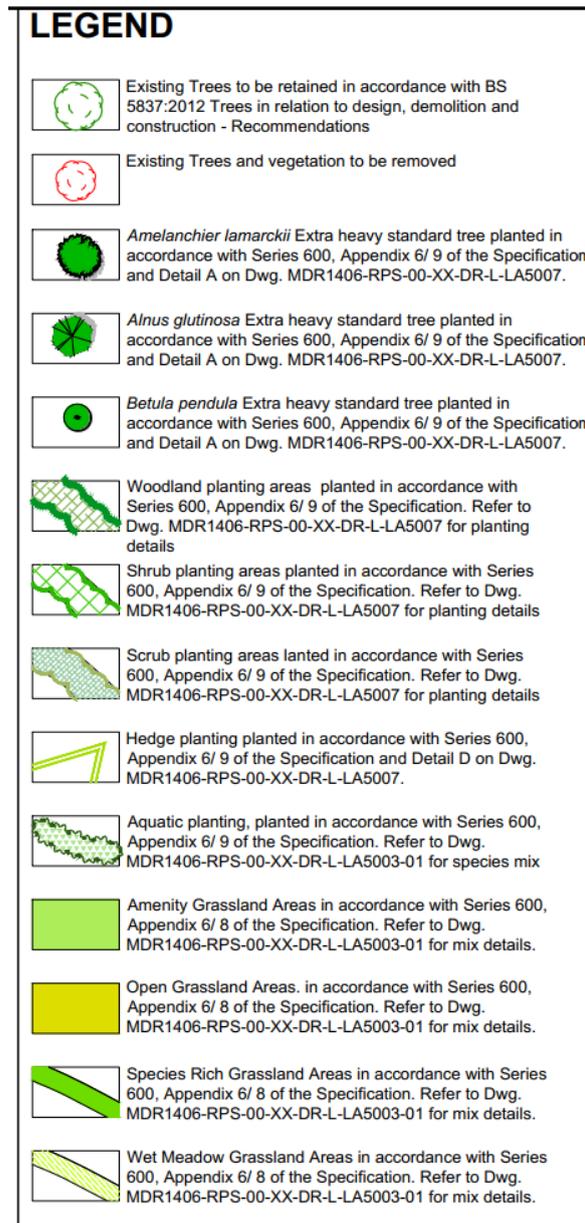


Figure 3-1 Planting Legend

3.1 Retention of trees

As the remediation works begin, WBL will consult with the ER/KCC on the retention of trees on the site. This will be imperative during the works especially during the site clearance works. WBL aim to retain as many trees as possible that will be not impacted by construction activities.

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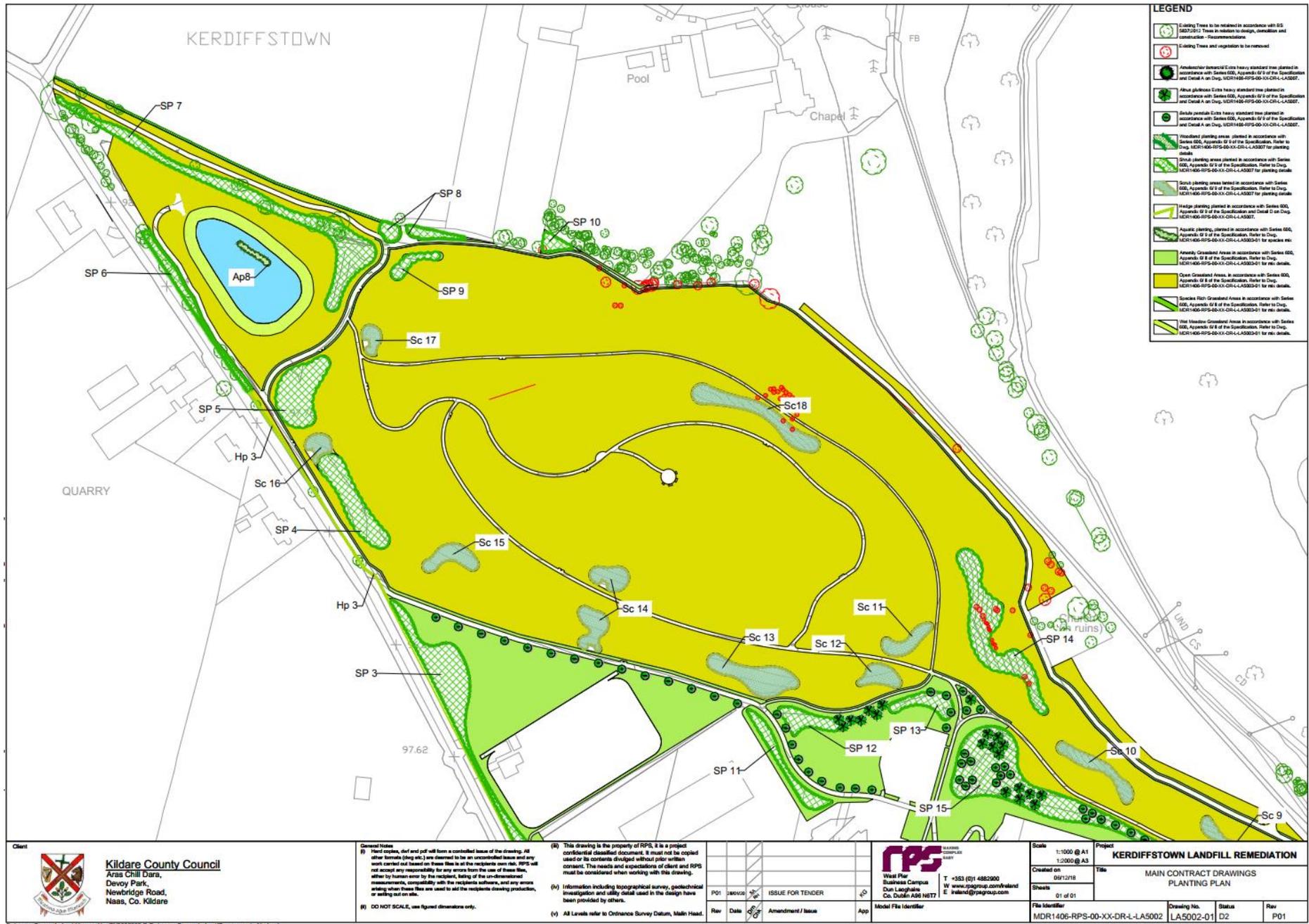


Figure 3-2 Planting Plan 1 of 2

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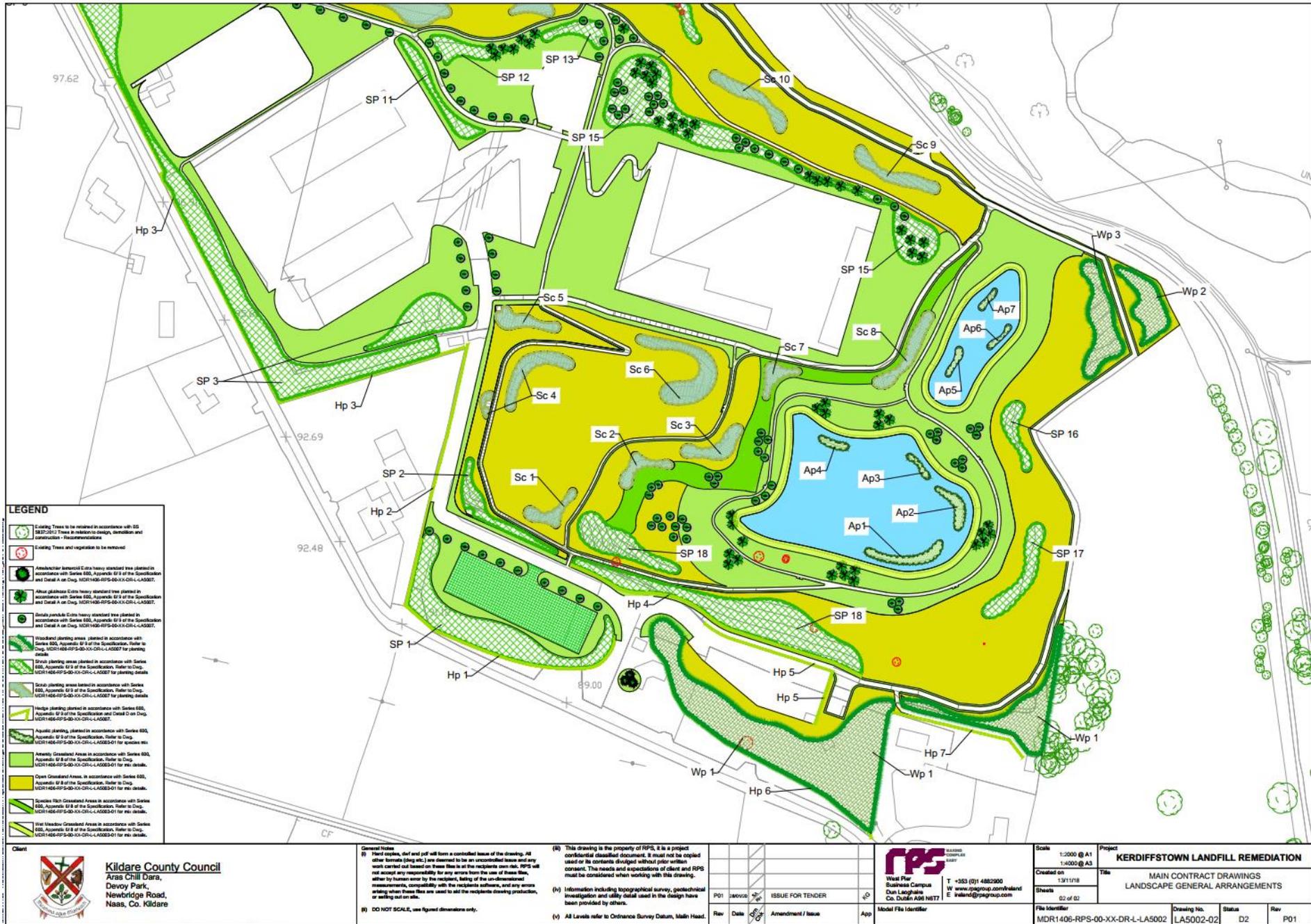


Figure 3-3 Planting Plan 2 of 2

4.0 Main Site Schedules

Section 4.0 outlines the main site schedules for the landscape design. All planting and seeding works will be undertaken as per the WBL works programme. The list of tables showing each plant with the various criteria attached to them are as follows:

1. Tree Planting Schedule
2. Woodland Mix
3. Scrub Planting
4. Scrub Planting
5. Hedgerow Mix
6. Aquatic Planting – Marginal/Pond Edges
7. Amenity Grassland Seed Mixture
8. Species Rich Grassland Seed Mixture
9. Open Grassland Seed Mixture
10. Wet Grassland Seed Mixture

4.1 Planting Season

Table 4-1 below shows the type of plant and the appropriate planting season attached to it. WBL will adopt these timeframes where planting and seeding are to be carried out.

Table 4-1 Planting Season

Type of Plant	Planting Season	
	Start	End
Trees, shrubs, climbers, herbaceous plants	31 st October	31 st March
Emergent vegetation	1 st February	31 st March
Grass Seeding	1 st April	31 st May
	1 st September	30 th October

4.2 Planting Pit

Table 4-2 below shows the minimum dimensions at which each pit will be excavated too.

Table 4-2 Planting pit dimensions

Plant Type	Plant Height (m)	Dimensions of Plant Pit
Extra heavy standard tree	minimum 4.25m overall height	1.2 x 1.2 x 1.0 metre deep
Heavy standard tree	3.50-4.50m overall height	1.0 x 1.0 metre x 1 meter deep
Select Standard tree	minimum 3.0m overall height	900 x 900 x 600 millimetres deep
Multi Stemmed trees	2.5 – 3.0m overall height	1.0 x 1.0 metre x 1.0 meter deep
Specimen Conifer	1.75 – 2.0m overall height,	900 x 900 x 600 millimetres deep
Transplant/Shrub	0.3-1.2m overall height	300 x 300 x 300 millimetres deep

4.3 Fertilizer Application

Table 4-3 below shows the rate of fertilizer for each of the plant types. A slow-release fertilizer will be evenly incorporated into the backfill soil of each pit.

Table 4-3 Fertilizer application

Plant Type	Rate
Alginure granules shall be applied using a dispenser to allow the amount per square metre and per pit to be closely monitored.	
Extra Heavy Standard/ Heavy Standard Trees	200g/tree pit
Standard / Feathered Trees/ Specimen Conifers	100g/tree pit
Whips/Climbers	50g/pit
Transplants	30g/pit
Hedges and Shrubs in Ornamental beds	70g/m ²

Figure 4-1 below outlines the planting schedules for the Kerdiffstown site.

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Table 1 - Tree Planting Schedule

Extra Heavy Standard Tree Planting	Common Name	Botanical Name	Form Habit	Transplanted	Height (cm)	Girth (cm)	Root Condition	Clear Stem (cm)	Number
	Snowy Mesplis	Amelanchier lamarcoki	Extra Heavy Standard	3x	min 425	14 - 16	Container Grown	Min 180	3
	Alder	Alnus glutinosa	Extra Heavy Standard	3x	min 425	14 - 16	Root Balled	Min 175	52
	Birch	Betula pendula	Extra Heavy Standard	3x	min 425	14 - 16	Root Balled	Min 175	105

Table 2 - Woodland Mix

Common Name	Botanical Name	Height (cms) (min)	Root condition	Form Habit	Age	Spacing	Planting Area Code	Wp 1	Wp 2	Wp 3	Totals
							Area for Planting (M ²)	6400	705	955	8050
Alder	Alnus glutinosa	40 - 60	Bare Root	Transplant, seed raised	1 + 1	2.0m		80	9	12	101
Alder	Alnus glutinosa	175 - 200	Bare Root	2x Transplanted, Feathered	-	2.0m		80	9	12	101
Birch	Betula pendula	60 - 80	Bare Root	Transplant, seed raised	1 + 1	2.0m		112	18	25	155
Beech	Fagus sylvatica	60 - 80	Bare Root	Transplant, seed raised	1 + 2	2.0m		128	18	25	171
Oak	Quercus robur	40 - 60	Bare Root	Transplant, seed raised	1 + 1	2.0m		88	13	18	119
Oak	Quercus robur	175 - 200	Bare Root	2x Transplanted, Feathered	-	2.0m		88	13	18	119
Rowan	Sorbus aucuparia	40 - 60	Bare Root	Transplant, seed raised	1 + 1	2.0m		80	9	12	101
Rowan	Sorbus aucuparia	175 - 200	Bare Root	2x Transplanted, Feathered	-	2.0m		80	9	12	101
Hazel	Corylus avellana	40 - 60	Bare Root	Branched, 2 breaks minimum	1 + 1	2.0m		112	18	25	155
Hawthorn	Crataegus monogyna	60 - 80	Bare Root	Transplant, seed raised	1 + 1	2.0m		112	18	25	155
Blackthorn	Prunus spinosa	60 - 80	Bare Root	Branched, 2 breaks minimum	1 + 1	1.5m		141	31	43	215
Elder	Sambucus nigra	40 - 60	Bare Root	Branched, 2 breaks minimum	1 + 0	1.5m		282	47	65	394
Holly	Ilex aquifolium	60 - 80	Container grown	3LI Pot, Leader and Lateral	-	1.5m		197	0	0	197
Privet	Ligustrum vulgare	60 - 80	Bare Root	Branched, 3 Breaks minimum	1 + 1	1.5m		225	0	0	225
Yew	Taxus baccata	40 - 60	Container grown	3LI Pot, Bushy	-	1.5m		282	0	0	282
								2087	212	292	2591

Table 3 - Shrub Planting

Common Name	Botanical Name	Height (cms) (min)	Root condition	Form Habit	Age	Spacing	% Mix	Planting Area Code	SP 1	SP 2	SP 3	SP 4	SP 5	SP 6	SP 7	SP 8	SP 9	SP 10	SP 11	SP 12	SP 13	SP 14	SP 15	SP 16	SP 17	SP 18	Totals
								Area for Planting (M ²)	2388	465	5760	856	955	435	2045	270	225	170	485	395	390	1485	3615	370	360	3535	24253
Hazel	Corylus avellana	40 - 60	Bare Root	Branched, 2 breaks minimum	1 + 1	1.5m	15%		158	31	380	59	63	29	135	15	11	33	26	26	98	239	24	24	233	899	
Dogwood	Cornus sanguinea	40 - 60	Bare Root	Branched, 2 Breaks	1 + 1	1.5m	15%		158	31	380	59	63	29	135	15	11	33	26	26	98	239	24	24	233	899	
Hawthorn	Crataegus monogyna	60 - 80	Bare Root	Transplant, seed raised	1 + 1	1.5m	50%		210	41	507	79	84	38	180	24	20	15	44	35	34	131	318	33	32	311	1198
Blackthorn	Prunus spinosa	60 - 80	Bare Root	Branched, 2 breaks minimum	1 + 1	1.5m	20%		210	41	507	79	84	38	180	24	20	15	44	35	34	131	318	33	32	311	1198
									736	144	1774	276	294	134	630	84	70	92	154	122	120	458	1114	114	112	1088	4194

Table 4 - Shrub Planting

Common Name	Botanical Name	Height (cms) (min)	Root condition	Form Habit	Age	Spacing	% Mix	Planting Area Code	Sc 1	Sc 2	Sc 3	Sc 4	Sc 5	Sc 6	Sc 7	Sc 8	Sc 9	Sc 10	Sc 11	Sc 12	Sc 13	Sc 14	Sc 15	Sc 16	Sc 17	Sc 18	Totals
								Area for Planting (M ²)	270	270	380	570	340	850	235	443	443	442	315	297	768	590	385	185	190	815	7798
Hawthorn	Crataegus monogyna	60 - 80	Bare Root	Transplant, seed raised	1 + 1	1.0m	20%		54	54	76	114	68	172	47	89	89	88	63	59	154	118	77	37	38	163	1560
Blackthorn	Prunus spinosa	60 - 80	Bare Root	Branched, 2 breaks minimum	1 + 1	1.0m	20%		54	54	76	114	68	172	47	89	89	88	63	59	154	118	77	37	38	163	1560
Bramble	Rubus fruticosus	40 - 60	Bare Root	Transplant, seed raised	1 + 0	1.5m	15%		18	18	25	38	22	57	16	29	29	21	20	51	39	25	12	13	54	516	
Elder	Sambucus nigra	40 - 60	Bare Root	Transplant, seed raised	1 + 0	1.5m	30%		39	36	50	75	45	114	31	58	58	42	39	101	78	51	24	25	108	1029	
Dog Rose	Rosa canina	60 - 80	Bare Root	Transplant, seed raised	1 + 1	1.5m	15%		18	18	25	38	22	57	16	29	29	21	20	51	39	25	12	13	54	516	
									180	180	252	378	225	572	157	294	294	292	210	197	511	392	255	122	127	542	5181

Table 5 - Hedge Row Mix

Common Name	Botanical Name	Height (cms) (min)	Root condition	Form Habit	Age	Spacing	Planting Area Code	Hp 1	Hp 2	Hp 3	Hp 4	Hp 5	Hp 6	Hp 7	Totals
							Length of Hedge (Lnr M)	154	155	605	195	119	229	88	1555
Hawthorn	Crataegus monogyna	100 - 125	Bare Root	Transplant, seed raised	1 + 1	0.45		493	528	1936	0	0	733	282	3972
Holly	Ilex aquifolium	80 - 100	Container grown	Leader and laterals	3LI pot	0.45		62	66	242	273	167	92	35	937
Privet	Ligustrum vulgare	60 - 80	Bare Root	Branched, 3 Breaks min	1 + 1	0.45		0	0	0	312	190	0	0	502
Blackthorn	Prunus spinosa	100 - 125	Bare Root	Transplant, seed raised	1 + 1	0.45		31	33	121	0	0	46	18	249
Yew	Taxus baccata	40 - 60	Container grown	3LI Pot, Bushy	-	0.45		0	0	0	195	119	0	0	314
Em	Ulmus glabra	125 - 150	Bare Root	Transplant, seed raised	1 + 1	0.45		31	33	121	0	0	46	18	249
								617	660	2420	780	476	917	353	6223

Table 6 - Aquatic Planting - Marginal / Pond Edges

Common Name	Botanical Name	Root condition	Form Habit	Planting Area Code	Ap 1	Ap 2	Ap 3	Ap 4	Ap 5	Ap 6	Ap 7	Ap 8	Totals
				Area for Planting (M ²)	270	180	65	84	82	85	63	154	963
Jointed Rush	Juncus articulatus	Container Grown	9cm/ 0.5LI pot		81		20						46
Meadowswet	Filipendula ulmaria	Container Grown	9cm/ 0.5LI pot										0
Common Spike Rush	Eleocharis palustris	Container Grown	9cm/ 0.5LI pot		81	54	20	25	25	20	19		143
Flendula Sedge	Carex paniculata	Container Grown	9cm/ 0.5LI pot			81	20						46
Shallow submerged													0
Shoreweed	Littorella uniflora	Container Grown	9cm/ 0.5LI pot		81	54	20	25	25	20	19		290
Bulbous Rush	Juncus bulbosus	Container Grown	9cm/ 0.5LI pot		81	54	20	25	25	20	19		290
Flag Iris	Iris pseudacorus	Container Grown	11cm/ 1LI Pot		81	54	20	25	25	20	19		290
Water Plantain	Alisma plantago aquatica	Container Grown	9cm/ 0.5LI pot		81	54	20	25	25	20	19		290
Flowering Rush	Butomus umbellatus	Container Grown	9cm/ 0.5LI pot		81	54	20	25	25	20	19		290
Standing water													0
Reed Sweet Grass	Glyceria maxima	Container Grown	9cm/ 0.5LI pot		324	216	78	101	98	78	76		1198
Reed Canary Grass	Phalaris arundinacea	Container Grown	9cm/ 0.5LI pot			216		101	98	78	76		569
Bottle Sedge	Carex rostrata	Container Grown	9cm/ 0.5LI pot										569
Arrowhead	Sagittaria sagittifolia	Container Grown	11cm/ 1LI pot		243		59	101	98	78			139
Bur Reed	Sparganium erectum	Container Grown	11cm/ 1LI pot, root trained		324		78						185
Floating Species													0
Water Lily	Nuphar lutea	Container Grown	9cm/ 0.5LI pot		81		20						46
White Water Lily	Nymphaea alba ssp alba	Container Grown	9cm/ 0.5LI pot		81	54	20	25	25	20	19		290
Water Violet	Hottonia palustris	Container Grown	9cm/ 0.5LI pot			54		25	25	20	19		143
					1600	1080	395	503	494	394	380	923	5789

Table 10 - Wet Grassland Seed Mixture

Total Area 2.437m ² Comprised 20% Wildflower Seed and 80% Grass Seed				
Common Name	Botanical Name	Sowing Rate	% Mix	
Sweetwort	Achillea ptarmica		1.3	
Common Knapsweed	Centaurea nigra		2.0	
Meadowswet	Filipendula ulmaria		1.5	
Meadow Cranesbill	Geranium pratense		1.5	
Water Avens	Geum rivale		0.5	
Yellow Flag Iris	Iris pseudacorus		2.0	
Autumn Hawkbit	Leontodon autumnalis		0.1	
Ox-eye Daisy	Leucanthemum vulgare		1.0	
Greater Birdfoot Trefoil	Lotus uliginosus		1.0	
Ragged Robin	Lychnis flos-cuculi		1.5	
Ribwort Plantain	Plantago lanceolata	3g/ m ²	2.0	
Selfheal	Prunella vulgaris		2.0	
Meadow Buttercup	Ranunculus acris		2.0	
Common Sorrel	Rumex acetosa		1.0	
Devil-bit Scabious	Succisa pratensis		0.1	
Common Bent	Agrostis capillaris		11.0	
Meadow Foxtail	Alopesurus pratensis		4.0	
Crested Dog-tail	Cynosurus cristatus		11.0	
Tufted Hair Grass	Deschampsia caespitosa		5.0	
Chewings Fescue	Festuca rubra ssp. Commutata		30.0	
Smooth-Stalked Meadow Grass	Poa pratensis		19.0	

Table 7 - Amenity Grassland Seed Mixture

Total Area 50.627m ² Comprised 100% Grass Seed				
Common Name	Botanical Name	Sowing Rate	% Mix	
Dwarf Creeping Red Fescue	Festuca rubra ssp. ovina		30.0	
Dwarf Perennial Ryegrass	Lolium perenne		23.7	
Hard Fescue	Festuca ovina	35g/ m ²	20.0	
Smooth Stalked Meadow Grass	Poa pratensis		12.5	
Browntop Bentgrass	Poa annua		10.0	
Miniature White Clover	Trifolium repens			

5.0 Main Site Surfaces General Arrangements

Section 5.0 outlines the main site surfaces general arrangements for the landscape design. Figure 5-1 below outlines the legend for the surface's general arrangements for the site. Figure 5-2 and Figure 5-3 below show the drawings indicating the surface general arrangements. All main site surfaces general arrangements will be undertaken as per the WBL works programme.

LEGEND	
	Proposed Asphalt Surfaced Access Routes. Refer to Detail E on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
	Proposed 2m Wide Access Routes. Refer to Detail F on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
	Proposed 1.5m Wide Access Routes. Refer to Type 3 detail on Dwg. MDR1406-RPS-00-XX-DR-C-DG1705 for details
	Proposed grassed areas with Grassmat safety surfacing as per Appendix 36/1AR of the Specification
	Proposed Areas of Wetpour Safety Surfacing as per Appendix 36/1AR of the Specification retained with 50mm wide flat top pin kerb
	Proposed Sand Play / Sand Surfacing as per Appendix 36/1AR of the Specification
	Proposed Sports Pitch Surfacing Refer to Engineers drawings for details
	Proposed Running Track Surfacing Refer to Engineers drawings for details
	Proposed Concrete block paving to footpaths and circulation area. Refer to Detail SCD 01106
	Proposed Concrete block paving with contrasting colour trim to play area entrance and viewing point. Refer to Detail G on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007
	Proposed Location for Picnic Bench and Table. Refer to Detail H on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
	Proposed Location for Seat. Refer to Detail K on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Proposed Location for Bench. Refer to Detail L on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Proposed Location for Cycle Rack (2N. per location) Refer to Detail M on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Proposed Location for Litter Bin. Refer to Detail J on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Proposed Location for Information / Interpretive sign board Refer to Detail N on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Proposed Viewpoint interpretive sign. Refer to Detail N on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Proposed location for EPA Licence Sign. Refer to Detail O on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
	Indicative Location for Bat Boxes. Refer to Appendix 40/1AR of the Specification. Final locations to be agreed with Client.
	Indicative Location for Bird Box. Refer to Appendix 40/1AR of the Specification. Final location to be agreed with Client.
	Indicative Location for Hedgehog Box. Refer to Appendix 40/1AR of the Specification. Final location to be agreed with Client.
	Indicative Location for Reptile Hibernacuta. Refer to Appendix 40/1AR of the Specification. Final location to be agreed with Client.
	Indicative Location for Artificial Sand Martin Bank. Refer to Appendix 40/1AR of the Specification.

Figure 5-1 Surfaces Legend

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
Landscape Masterplan Statement
November - 2020

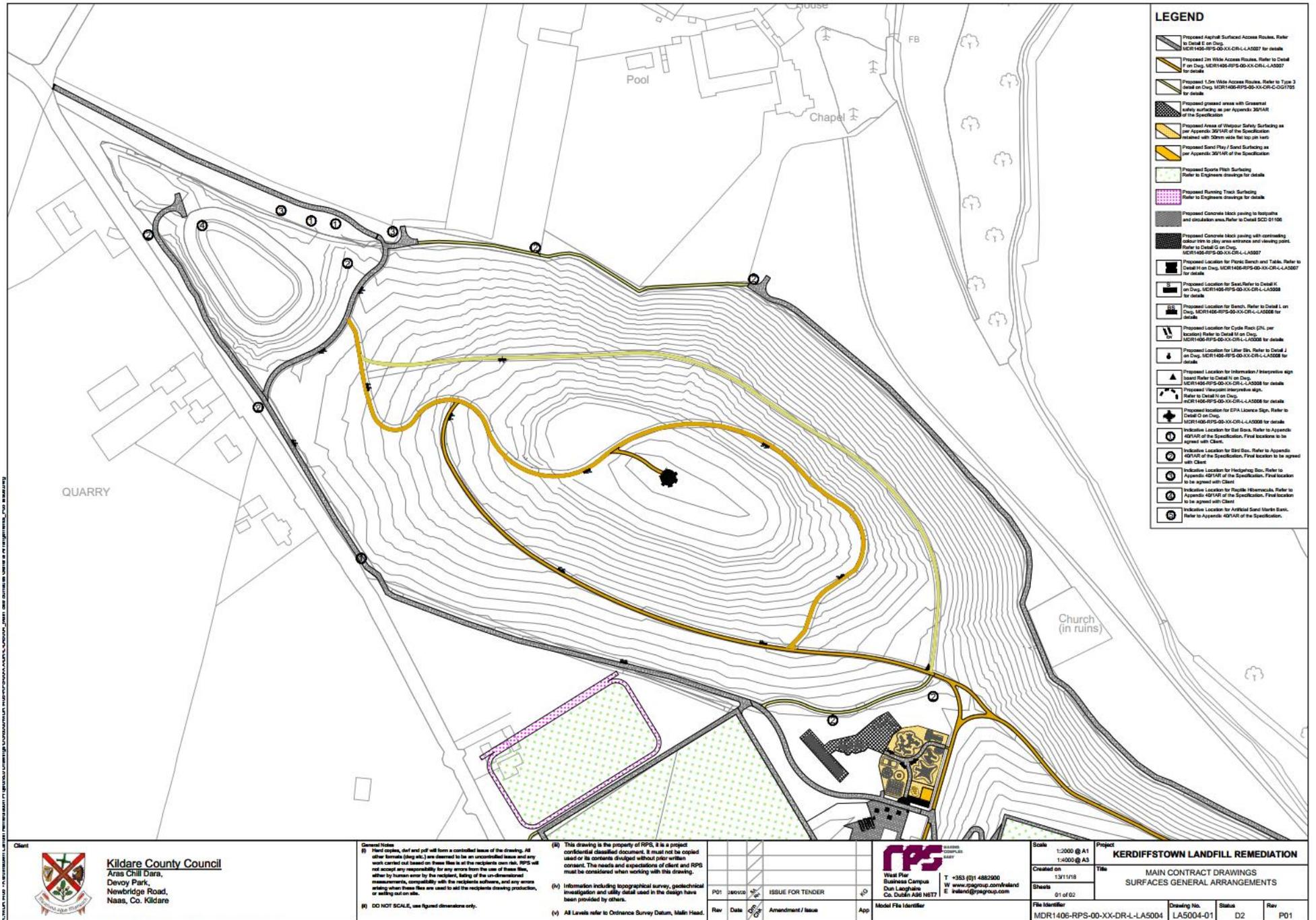
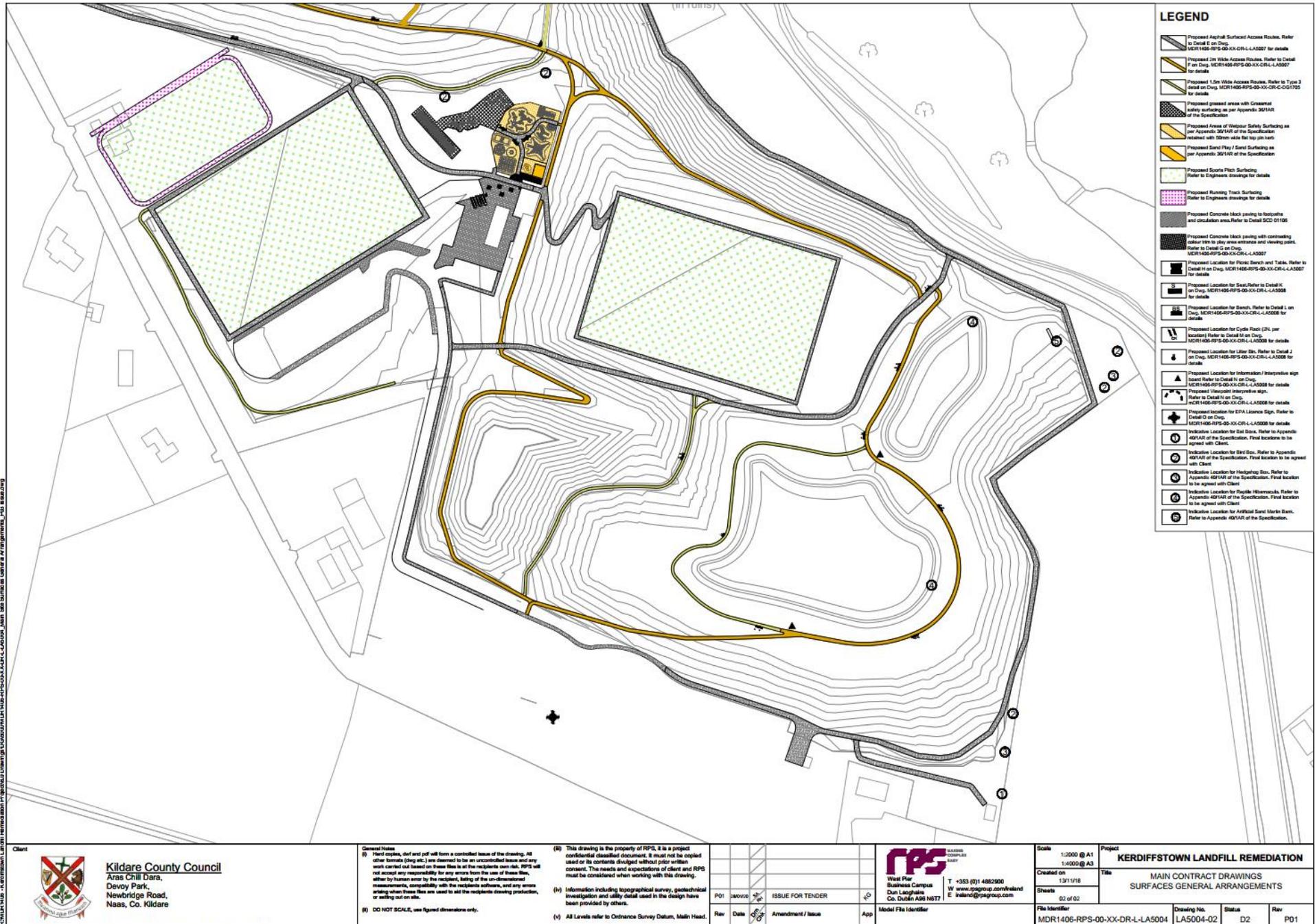


Figure 5-2 Surface General Arrangements

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
 Landscape Masterplan Statement
 November - 2020



- LEGEND**
- Proposed Asphalt Surfaced Access Roads. Refer to Detail E on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
 - Proposed 2m Wide Access Roads. Refer to Detail F on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
 - Proposed 1.2m Wide Access Roads. Refer to Type 3 detail on Dwg. MDR1406-RPS-00-XX-DR-C-051705 for details
 - Proposed graded areas with Concrete safety surfacing as per Appendix 36/AR of the Specification
 - Proposed Areas of Wetland Safety Surfacing as per Appendix 36/AR of the Specification related with 50mm wide flat top job bars
 - Proposed Safety / Guard Surfacing as per Appendix 36/AR of the Specification
 - Proposed Sports Pitch Surfacing Refer to Engineers drawings for details
 - Proposed Running Track Surfacing Refer to Engineers drawings for details
 - Proposed Concrete block paving to barriering and circulation area. Refer to Detail G21 01 00
 - Proposed Concrete block paving with connecting colour strip to play area entrance and viewing point. Refer to Detail G on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007
 - Proposed Location for Paved Bench and Table. Refer to Detail H on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Location for Seat. Refer to Detail K on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Location for Bench. Refer to Detail L on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Location for Cycle Rack (2U per location) Refer to Detail M on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Location for Litter Bin. Refer to Detail J on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Location for Information / Interpretive sign board Refer to Detail N on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Interpretive sign. Refer to Detail P on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Proposed Location for EPA Licence Sign. Refer to Detail O on Dwg. MDR1406-RPS-00-XX-DR-L-LA5008 for details
 - Indicative Location for Flat Stone. Refer to Appendix 40/AR of the Specification. Final locations to be agreed with Client
 - Indicative Location for Ball Stn. Refer to Appendix 40/AR of the Specification. Final locations to be agreed with Client
 - Indicative Location for Ball Stn. Refer to Appendix 40/AR of the Specification. Final locations to be agreed with Client
 - Indicative Location for Hedgehog Stn. Refer to Appendix 40/AR of the Specification. Final locations to be agreed with Client
 - Indicative Location for Playable Fiberglass. Refer to Appendix 40/AR of the Specification. Final locations to be agreed with Client
 - Indicative Location for Artificial Sand Sports Blank. Refer to Appendix 40/AR of the Specification.

Client



Kildare County Council
 Aras Chill Dara,
 Devoy Park,
 Newbridge Road,
 Naas, Co. Kildare

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(v) All Levels refer to Ordnance Survey Datum, Mean High.

PO1	28/01/20	ISSUE FOR TENDER	
Rev	Date	Amendment / Issue	App

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Scale 1:2000 @ A1
 1:4000 @ A3

Created on 13/11/18

Sheets 02 of 02

File Identifier MDR1406-RPS-00-XX-DR-L-LA5004

Project **KERDIFFSTOWN LANDFILL REMEDIATION**

Title **MAIN CONTRACT DRAWINGS SURFACES GENERAL ARRANGEMENTS**

Drawing No. LA5004-02

Status D2

Rev P01

Figure 5-3 Surface General Arrangements

6.0 Main Site Fencing & Boundary Treatments

Section 6.0 outlines the main site surfaces general arrangements for the landscape design. Figure 6-1 below outlines the legend showing the main site fencing and boundary treatments. Figure 6-2 below show the drawings indicating the main site fencing and boundary treatments. All main site fencing and boundary treatments will be undertaken as per the WBL works programme

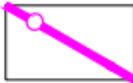
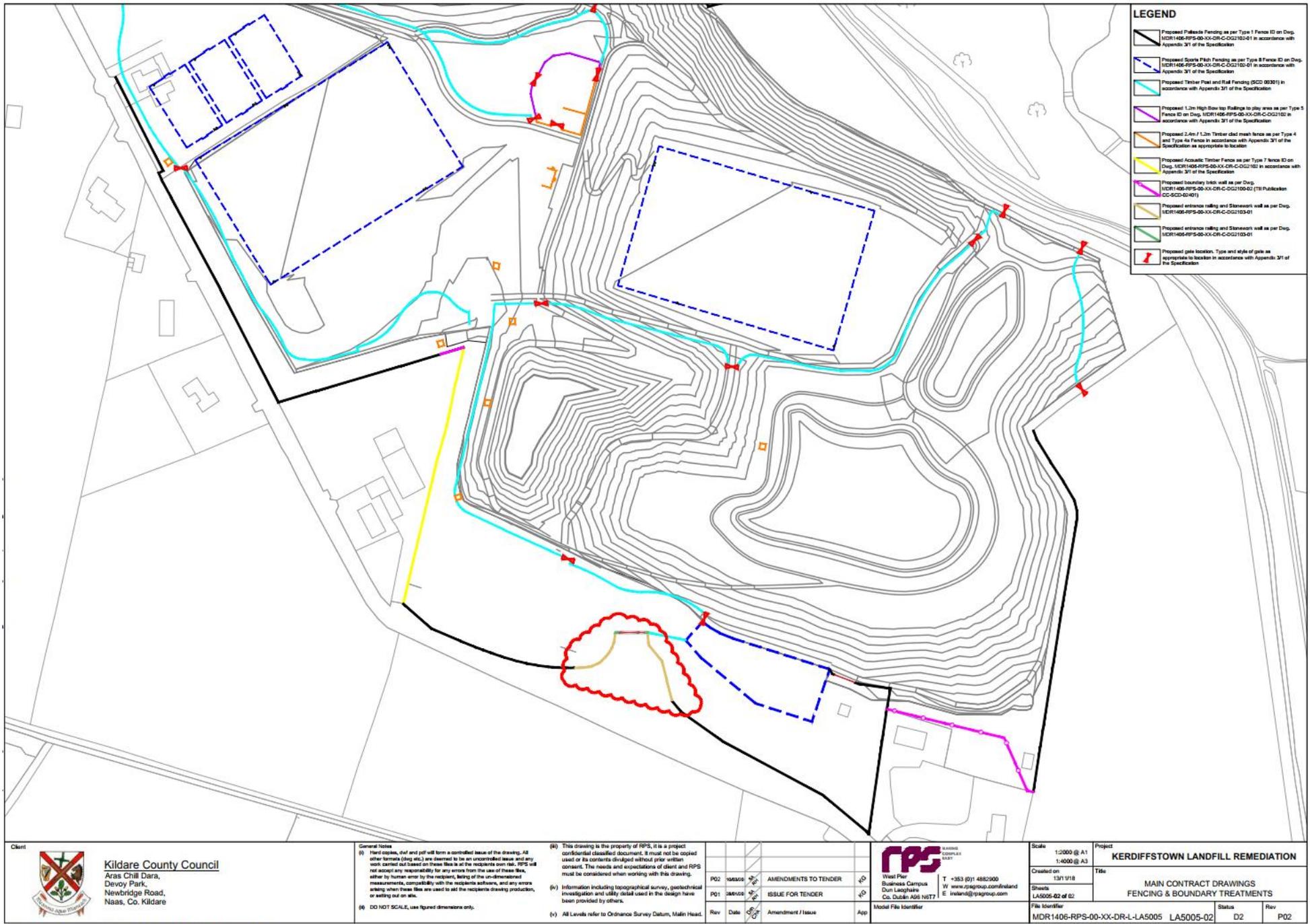
LEGEND	
	Proposed Palisade Fencing as per Type 1 Fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102-01 in accordance with Appendix 3/1 of the Specification
	Proposed Sports Pitch Fencing as per Type 8 Fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102-01 in accordance with Appendix 3/1 of the Specification
	Proposed Timber Post and Rail Fencing (SCD 00301) in accordance with Appendix 3/1 of the Specification
	Proposed 1.2m High Bow top Railings to play area as per Type 5 Fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102 in accordance with Appendix 3/1 of the Specification
	Proposed 2.4m / 1.2m Timber clad mesh fence as per Type 4 and Type 4a Fence in accordance with Appendix 3/1 of the Specification as appropriate to location
	Proposed Acoustic Timber Fence as per Type 7 fence ID on Dwg. MDR1406-RPS-00-XX-DR-C-DG2102 in accordance with Appendix 3/1 of the Specification
	Proposed boundary brick wall as per Dwg. MDR1406-RPS-00-XX-DR-C-DG2100-02 (TII Publication CC-SCD-02401)
	Proposed entrance railing and Stonework wall as per Dwg. MDR1406-RPS-00-XX-DR-C-DG2103-01
	Proposed entrance railing and Stonework wall as per Dwg. MDR1406-RPS-00-XX-DR-C-DG2103-01
	Proposed gate location. Type and style of gate as appropriate to location in accordance with Appendix 3/1 of the Specification

Figure 6-1 Fencing & Boundary Legend

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
Landscape Masterplan Statement
November - 2020



Client

Kildare County Council
 Aras Chill Dara,
 Devoy Park,
 Newbridge Road,
 Naas, Co. Kildare

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(iv) All Levels refer to Ordnance Survey Datum, Malin Head.

(v) DO NOT SCALE, use figured dimensions only.

PO2	15/03/20	AMENDMENTS TO TENDER	✓
PO1	08/03/20	ISSUE FOR TENDER	✓
Rev	Date	Amendment / Issue	App

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Model File Identifier

Scale	1:2000 (A1) 1:4000 (A3)	Project	KERDIFFSTOWN LANDFILL REMEDIATION
Created on	13/11/18	Title	MAIN CONTRACT DRAWINGS FENCING & BOUNDARY TREATMENTS
Sheet No.	LA5005-02 of 02	File Identifier	MDR1406-RPS-00-XX-DR-L-LA5005 LA5005-02
Status	D2	Rev	P02

Figure 6-2 Fencing & Boundary Treatments

7.0 Indicative Play Area Layout

Section 7.0 outlines the indicative play area layout for the end use design. Figure 7-1 below outlines the legend showing the main site fencing and boundary treatments. Figure 7-2 below show the drawing outlining the indicative play area layout. All works associated with the play area will be undertaken as per the WBL works programme.

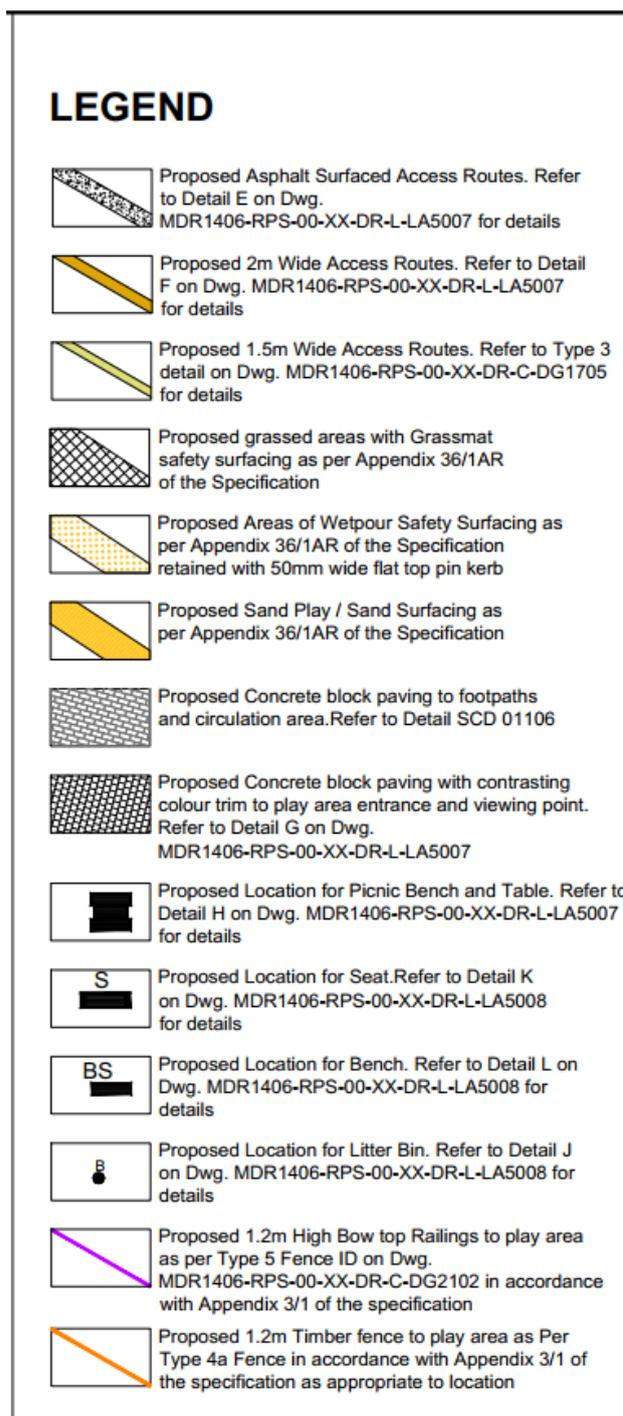


Figure 7-1 Indicative Play Area Layout Legend

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
Landscape Masterplan Statement
November - 2020



LEGEND

- Proposed Asphalt Surfaced Access Routes. Refer to Detail E on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
- Proposed 2m Wide Access Routes. Refer to Detail on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
- Proposed 1.5m Wide Access Routes. Refer to Type 3 detail on Dwg. MDR1406-RPS-00-XX-DR-C-GG1705 for details
- Proposed Double Cableway Rotunda (Flat Surroundings) as available from Kompan or similar and/or equal as approved. (Kompan Ref. NRO362)
- Proposed Timber (Robina) play / activity trail as available from Russell Play or similar and/or equal as approved. (Russell Play Ref H65 Ushigen)
- Proposed Timber (Robina) play / activity trail as available from Russell Play or similar and/or equal as approved. (Russell Play Ref H47 Balancing Course Troll Park)
- Proposed Timber (Robina) play / activity trail as available from Russell Play or similar and/or equal as approved. (Kompan Ref. FAZ20300)
- Proposed Inclusive Multi-Play Unit as available from Inclusive Play or similar and/or equal as approved (Inclusive Play Ref. IP202 Multisay Unit)
- Proposed Inclusive Multi-Play Unit (Toddler 1 - 4) as available from Kompan or similar and/or equal as approved. (Kompan Ref. NAT506 Tree Castle)
- Proposed Multi-Play Unit (Sand Play Age Range 2 - 10) as available from Kompan or similar and/or equal as approved. (Kompan Ref. NRO631 Oasis Creator)
- Proposed Triple Bay Combination Swing as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP 25 Triple Bay Combination Swing)
- Proposed Wheelchair multi-ability ground level roundabout as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP12 Wheelspin)
- Proposed Wheelchair multi-ability ground level roundabout as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP 13 Vortex)
- Proposed Wheelchair swing as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP 15 Swing)
- Proposed Concrete block paving to footpaths and circulation areas. Refer to Detail GCD 01106
- Proposed Concrete block paving with contrasting colour tiles to play area entrance and viewing points. Refer to Detail G on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007
- Proposed Location for Plastic Bench and Table. Refer to Detail H on Dwg. MDR1406-RPS-00-XX-DR-L-LA5007 for details
- Proposed Location for Seat. Refer to Detail K on Dwg. MDR1406-RPS-00-XX-DR-L-LA5006 for details
- Proposed Location for Bench. Refer to Detail L on Dwg. MDR1406-RPS-00-XX-DR-L-LA5006 for details
- Proposed Location for Litter Bin. Refer to Detail J on Dwg. MDR1406-RPS-00-XX-DR-L-LA5006 for details
- Proposed 1.2m High Top Railings to play area as per Type 3 Fence D on Dwg. MDR1406-RPS-00-XX-DR-C-GG1702 in accordance with Appendix 31 of the specification
- Proposed 1.2m Timber fence to play area as per Type 4a Fence in accordance with Appendix 31 of the specification as appropriate to location

Extract from MDR1406-RPS-00-XX-DR-L-LA5001 illustrating proposed play area location and layout of equipment. Scale 1:250

11 Proposed Multi-Play Unit (Toddler 1 - 4) as available from Kompan or similar and/or equal as approved. (Kompan Ref. NAT506 Tree Castle)

12 Proposed Wheelchair multi-ability ground level roundabout as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP12 Wheelspin)

13 Proposed Vortex Spinner as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP 13 Vortex)

14 Proposed Wheelchair swing as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP 15 Swing)

15 Proposed Triple Bay Combination Swing as available from Inclusive Play or similar and/or equal as approved. (Inclusive Play Ref. IP 25 Triple Bay Combination Swing)

Proposed Swing configuration to include 1Nc. Wave Swing (IP22), 1Nc. Sit Up Swing (IP23) and 2Nc. Traditional flat seat swings as available from Inclusive Play or similar and/or equal as approved.

<p>Kildare County Council Aras Chill Dara, Denny Park, Newbridge Road, Nass, Co. Kildare</p>	<p>Client</p>	<p>General Notes</p> <p>(i) Yard scales, dot and puff will form a controlled issue of the drawing. All other formats (big etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors from the use of these files, either by human error by the recipient, falling of the un-dimensional measurements, compatibility with the recipient software, and any errors arising when these files are used to aid the recipient drawing production, or setting out on site.</p> <p>(ii) DO NOT SCALE, use figured dimensions only.</p>	<p>(iii) This drawing is the property of RPS, it is a project confidential classified document. It must not be copied, used or its contents divulged without prior written consent. The needs and expectations of client and RPS must be considered when working with this drawing.</p> <p>(iv) Information including topographical survey, geotechnical investigation and utility detail used in the design have been provided by others.</p> <p>(v) All Levels refer to Ordnance Survey Datum, Mean Head.</p>	<p>P01 270026</p>	<p>ISSUE FOR TENDER</p>	<p>Model File Identifier</p>	<p>Scale: 1:250 @ A1 1:500 @ A3</p>	<p>Project: KERDIFFSTOWN LANDFILL REMEDIATION</p>	
				<p>Rev</p>	<p>Date</p>	<p>App</p>	<p>Created on: 30/06/2019</p>	<p>Title: MAIN CONTRACT DRAWINGS INDICATIVE PLAY AREA LAYOUT</p>	<p>Sheets: 01 of 01</p>

Figure 7-2 Indicative Play Area Layout

8.0 Landscape Details

Figure 8-1 and Figure 8-2 below show the typical landscape design details that are proposed for the site. These elements of the work will be undertaken as per the WBL works programme.

The following design elements are considered:

1. Extra Heavy Standard Tree Planting
2. Transplant Planting
3. Scrub Planting
4. Pathway
5. Concrete block paving to play area
6. Picnic bench and table arrangement
7. Wet pour safety sub surfacing
8. Litter bin
9. Seat fixing
10. Bench seat fixing
11. Cycle rack
12. Proposed signage frame
13. EPA signage

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
Landscape Masterplan Statement
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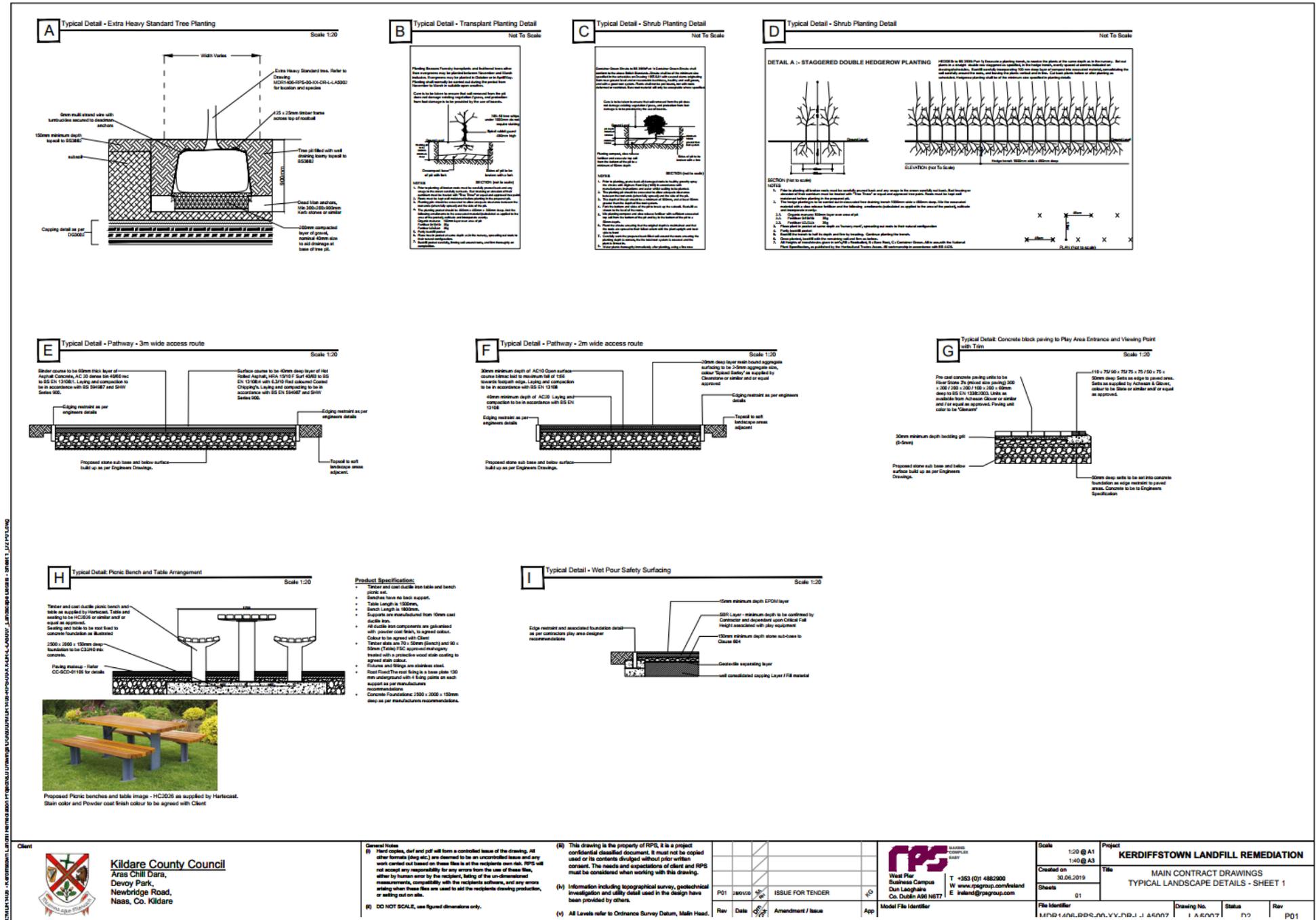


Figure 8-1 Typical Landscape Details 1 of 2

Wills Bros Ltd – Kerdiffstown Landfill Remediation Project
 Landscape Masterplan Statement
 November - 2020

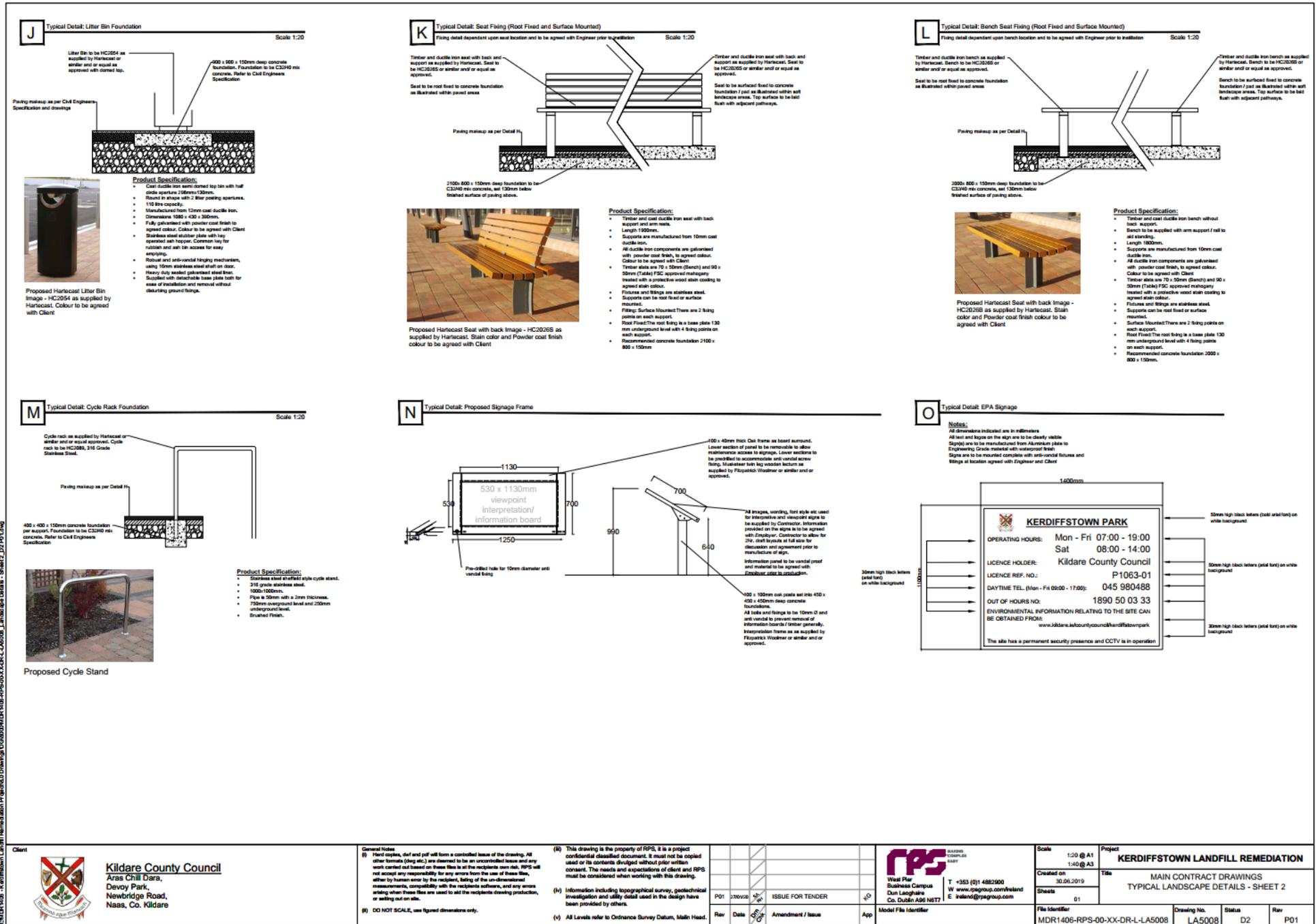


Figure 8-2 Typical Landscape Details 2 of 2

9.0 Programme

The remediation works are anticipated to be undertaken over 24 months from the start of the contract date. It is envisaged that the landscaping works during the remediation phase will take approximately seven months to complete. This will be subject to the works programme. Figure 9-1 below shows an impression of the site post-completion.



Figure 9-1 Artist Impression of the site post-completion